



VL-MR4 Multi Resource Charger/PSU

The Hawk-Woods MR (Multi Resource) battery charger features include,

- Universal Mains Input
- Charging of all V-Lok Ni-Cad, Ni-Mh and Lithium Batteries
- Compatible with Sony batteries
- Able to charge NP1s using Hawkwoods adaptor
- 13.8V 60Watt AC Adaptor (PSU)
- 12V In-Car vehicle charging
- Revitalise battery function

USER INSTRUCTIONS / SPECIFICATION

Mains Input: Suitable for worldwide use (90-260VAC 50~60Hz). This product is class 1 and must be earthed. These chargers are CE marked and have been designed to comply with all relevant safety/EMC regulations. **Important Note: Do not cover vents!**

Battery Charging: The VL-MR4 is a four channel sequencer quick charger, and suitable for charging the following battery types,

- Any NP1 Ni-Cad or Ni-Mh battery. (12-14V 1.5-4Ah)
- Hawk-Woods Lithium Ion NP50/NP60/NP65 battery packs. (14.4V 50-60-65Watts)
- All V-Lok battery chemistries
- Suitable for charging Sony type V-Mount batteries

Recharge time – Fully Discharged V-lok battery packs

VL-32	V-Lok 13.2V 32 W Battery Pack (Ni-Cad)	75 mins
VL-65	V-Lok 14.4V 65 Watt Battery Pack (Li-Ion)	220 mins
VL-100	V-Lok 14.4V 100 Watt Battery Pack (Li-Ion)	270 mins
VL-160	V-Lok 14.4V 160 Watt Battery Pack (Li-ion)	340 mins

Charger Use: Select mains input via the rocker switch located on the rear of the VL-MR4. Select charger function on the front of the unit. Connect the (Earthed) IEC mains cord supplied and the RED charger LED will come on. Connect a suitable battery/batteries into the VL-MR4 for charge.

Charge Status Indication

Yellow	Battery has been accepted and is Charging
Yellow/Green	Both LEDs flashing Faulty/Disconnected
Green	Battery Charging complete Ready

Yellow – Green (LEDs alternately on/off = 80% charged or more for Lithium's Only).

In-Car Charging: Check suitability of both the vehicle being used and it's wiring before use. Do not cover vents whilst in use!

- DC Input: 11-15Volts.
- Protection against reverse polarity fitted.
- Low voltage detection/Indication.

In-Car Charging Continued...

It is recommended that all the batteries to be charged be connected to the charger before starting the car. Select In-Car operation on the rear of the VL-MR4. Connect DC Cable.

Locate the unit in a suitable position, maybe on the floor passenger's side?

Please note that when powering the VL-MR4 from the vehicles cigar socket that some cars allow you to draw power whilst the car has not been started, others only supply an output voltage after the car has been started!

If during charge the supply voltage falls to 11.5volts the VL-MR4 will flash the chargers Red LED to indicate low voltage, where possible the VL-MR4 will complete charging the current battery being charged. In this mode the charger will not continue to charge any more batteries until the supply voltage has re-covered to a usable level.

Accessories for In-Car use

Choice of suitable DC input cables available from Hawkwoods/Dealers.

Power Supply Function

Select mains input via the switch located on the rear of the VL-MR4. Connect mains cord for AC use and select PSU function on the front of the unit.

Output: 14Volts at 60Watt maximum.
Short-circuit protection.
4 Pin XLR Wiring: 1Negative and 4 Positive.

Note: Do not exceed the output wattage of 60W. When used for lighting (50Watt lamp maximum).

Battery Revitalise Function

Connect batteries to be revitalised. To initiate the revitalise function, simply push the revitalise button within 3 seconds of the first battery commencing charge. The yellow LED will flash whilst discharging/ revitalising your battery. After the battery has been discharged the VL-MR4 will continue to charge in the usual way on move on to the next battery to be revitalised.

The revitalise function is only applicable to Ni-Cad/Ni-Mh batteries.

If a Lithium battery is encountered then it will be charged in the usual way with a no prior discharging.

The VL-MR4 will re-set automatically back to normal charge mode after all the batteries connected have received a revitalisation (excluding Lithium).

The time to revitalise your battery/batteries will depend on their state of charge before charging?

Example Discharge/Charge Times for revitalise
SNP-32 Already 50% discharged 165 mins

"Power you can rely on"

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